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EPA-PNL-87

"Grismala, Ralph"  
<Ralph.Grismala@icfi.com>  
06/27/2012 02:26 PM

To Phil North  
cc Glenn Suter  
bcc  
Subject RE: Did you read Jack Caldwell's blog? ... pF

Phil,

With regard to the probability of tailings dam failure, Caldwell's key assertion seems to be "The point of all this, in my opinion, is that the statistics of tailings facility failure underestimate probabilities by a factor of two to ten."

Ralph

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**From:** Phil North [mailto:North.Phil@epamail.epa.gov]  
**Sent:** Wednesday, June 27, 2012 1:07 PM  
**To:** Glenn Suter; Grismala, Ralph  
**Subject:** Did you read Jack Caldwell's blog?

He says that we are all underestimating the risk of dam failure.

<http://ithinkmining.com/2012/06/21/pebble-mine-bristol-bay-epa-report-meet-the-black-swan/>

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"To protect your rivers, protect your mountains."